Panasonic

CD Stereo System

Operating Instructions

Model No. **SC-PM10**

COMPACT disc DIGITAL AUDIO

E EB GN GCS

Note:
"EB" on the packaging indicates the United Kingdom.

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

RQT6682-2B

Dear customer

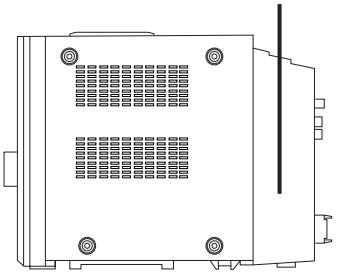
Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

These operating instructions are applicable to the following system.

System	SC-PM10
Main unit	SA-PM10
Speakers	SB-PM10

CLASS 1
LASER PRODUCT

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



Side of product

DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

Inside of product
Tuotteen sisällä
Produktets innside

(For Europe, Australia and New Zealand)

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

(For others)

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

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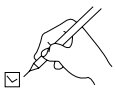
This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

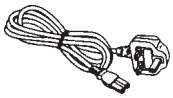
Supplied accessories



Please check and identify the supplied accessories.
Use numbers indicated in parentheses when asking for replacement parts.

☐ **AC mains lead . . . . . 1 pc.**

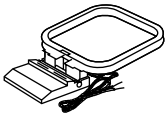
For the United Kingdom (VJA0733)



For Australia and N.Z. (RJA0035-X)

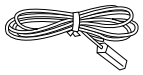
For others (RJA0019-2K)

☐ **AM loop antenna . . . . . 1 pc. (RSA0033-1)**

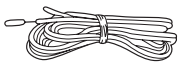


☐ **FM indoor antenna . . . . . .1 pc.**

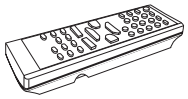
For Europe (RSA0007-L)



For Others (RSA0006-L)



☐ **Remote control transmitter . . . . . 1 pc. (EUR7711010)**



☐ **Remote control batteries . . . . . 2 pcs.**

☐ **Antenna plug adaptor . . . . . 1 pc.**
For the United Kingdom only (SJP9009)

Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Place it at least 15 cm away from wall surfaces to avoid distortion and unwanted acoustical effects.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

For the United Kingdom and Republic of Ireland

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www.panasonic.co.uk (for UK customers only)

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon–Friday 9:00 am–5:30 pm. (Excluding public holidays.)
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Technical Support
For UK customers: 0870 1 505610
This Technical Support Hot Line number is for Panasonic PC software related products only.
For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.
For all other product related enquiries, please use the Customer Care Centre numbers listed above.

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⟐ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

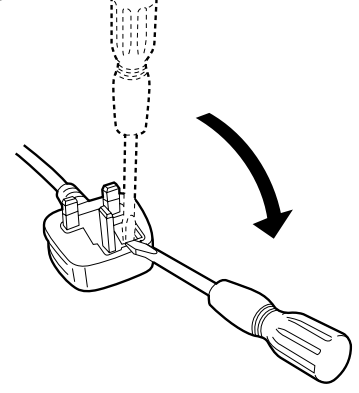
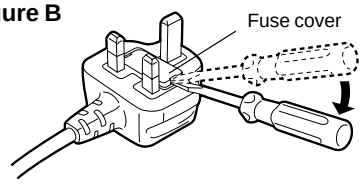


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

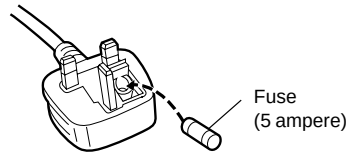
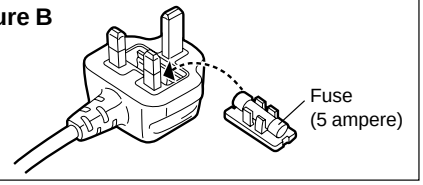
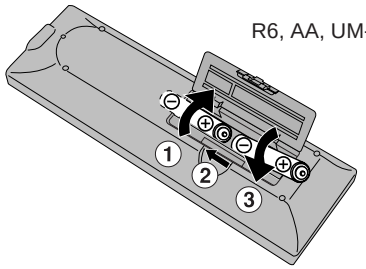


Figure B



The remote control

A Battery installation

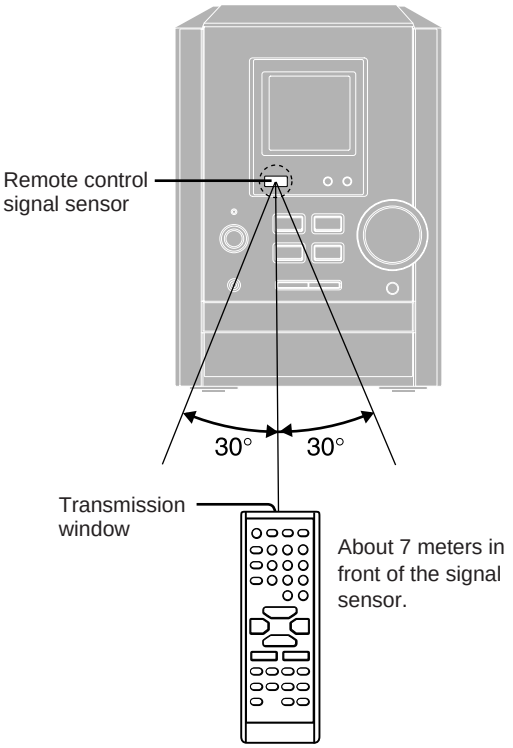


Use of batteries

- Align the poles (+ and –) properly when inserting the batteries.
- Do not mix old and new batteries or different types of batteries.
- Do not recharge ordinary dry cell batteries.
- Do not heat or disassemble the batteries. Do not allow them to contact flame or water.
- Remove the batteries if the unit is not to be used for a long time.
- Do not keep together with metallic objects such as necklaces.
- Do not use rechargeable type batteries.
- Do not use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.
If electrolyte leaks from the batteries, consult your dealer.
Wash thoroughly with water if electrolyte comes in contact with any part of your body.

B Correct method of use



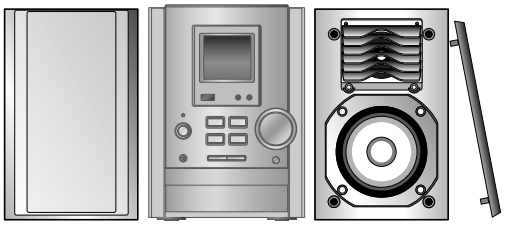
Operations notes

- Do not place obstacles between the remote control signal sensor and remote control unit.
- Do not expose the remote control signal sensor to direct sunlight or to the bright light of a fluorescent light.
- Take care to keep the remote control signal sensor and end of the remote control unit free from dust.
- If this system is installed in a rack with glass doors, the glass doors' thickness or color might make it necessary to use the remote control unit a shorter distance from the system.

To prevent damage

- Do not place heavy items on the remote control.
- Do not disassemble or reconstruct.
- Do not spill water or other liquids on the remote control.

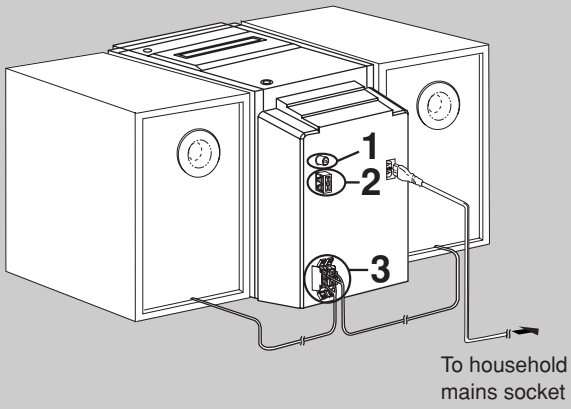
C Placement of speakers

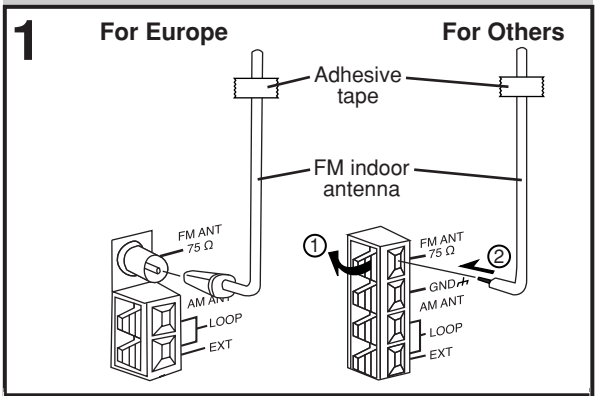


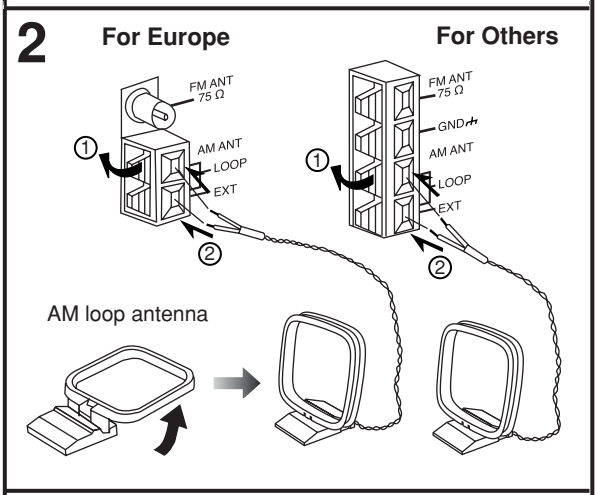
Speakers are designed identically so that no left or right channel orientation is necessary.

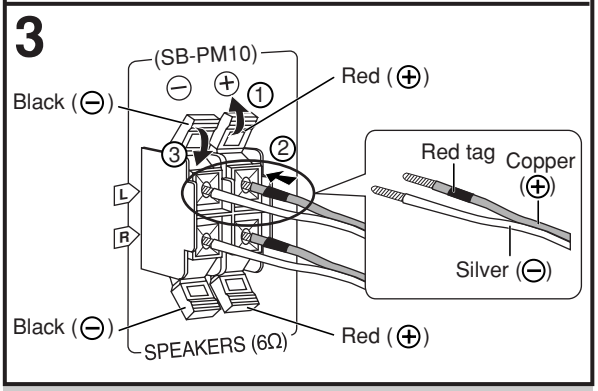
Notes

- Keep your speakers at least 10 mm away from the system for proper ventilation.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- To avoid damage to the speakers, do not touch the speaker cones if you have taken the nets off.



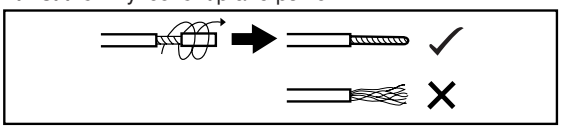






Connections

- Plug the AC mains lead into a household mains socket only after all other connections have been made.
- To prepare the AM loop antenna wire and speaker cords, twist the vinyl cover tip and pull off.



1 Connect the FM indoor antenna.

Tape the antenna to a wall or column, in a position where radio signals are received with the least amount of interference.

Note

For the best reception:

An FM outdoor antenna is recommended. (➡ page 7)

2 Connect the AM loop antenna.

After attaching the antenna, turn on the system and tune in a broadcast station. Put the antenna where the reception is best and interference is minimal.

3 Connect the speaker cables.

Connect the speaker cords without tags to the black terminals, so (+) and (–) are correct.
Connect the speaker cords with red tags to the red terminals, so (+) and (–) are correct.
Never allow the exposed wires to contact each other when connected.

Incorrect connection can damage the unit.

Caution

Use only the supplied speakers.

The combination of the main unit and speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

Caution

- **Use the speakers only with the recommended system.**
  Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- **Do not attach these speakers to walls or ceilings.**

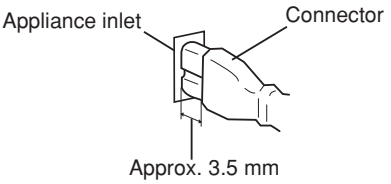
4 Connect the AC mains lead.

FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 4 BEFORE CONNECTION.

Insertion of Connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.

However there is no problem using the unit.



Note

The included AC mains lead is for use with this unit only. Do not use it with other equipment.

Optional antenna connections

You may need an outdoor antenna if you use this system in a mountainous region or inside a reinforced-concrete building, etc.

A FM outdoor antenna

Disconnect the FM indoor antenna if an FM outdoor antenna is installed.

Note

An outdoor antenna should be installed by a qualified technician only.

B AM outdoor antenna

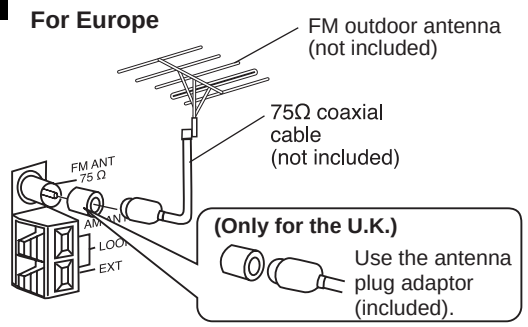
Connect the outdoor antenna without removing the AM loop antenna. Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.

Note

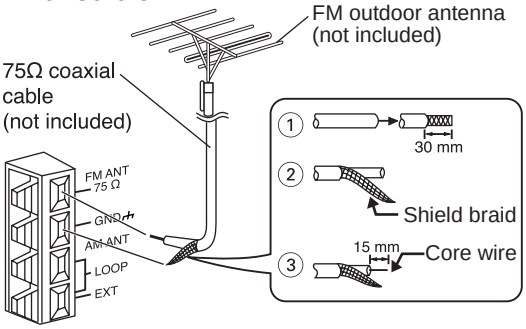
When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lighting. Never use an outdoor antenna during a lightning storm.

A

For Europe

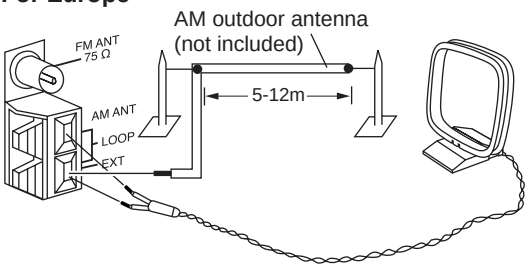


For Others

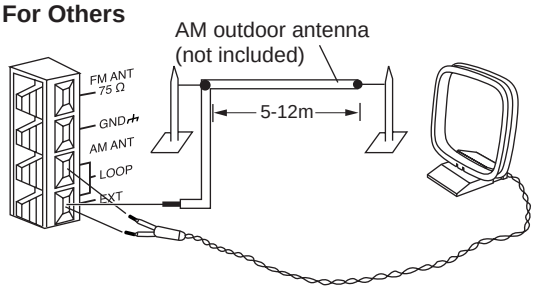


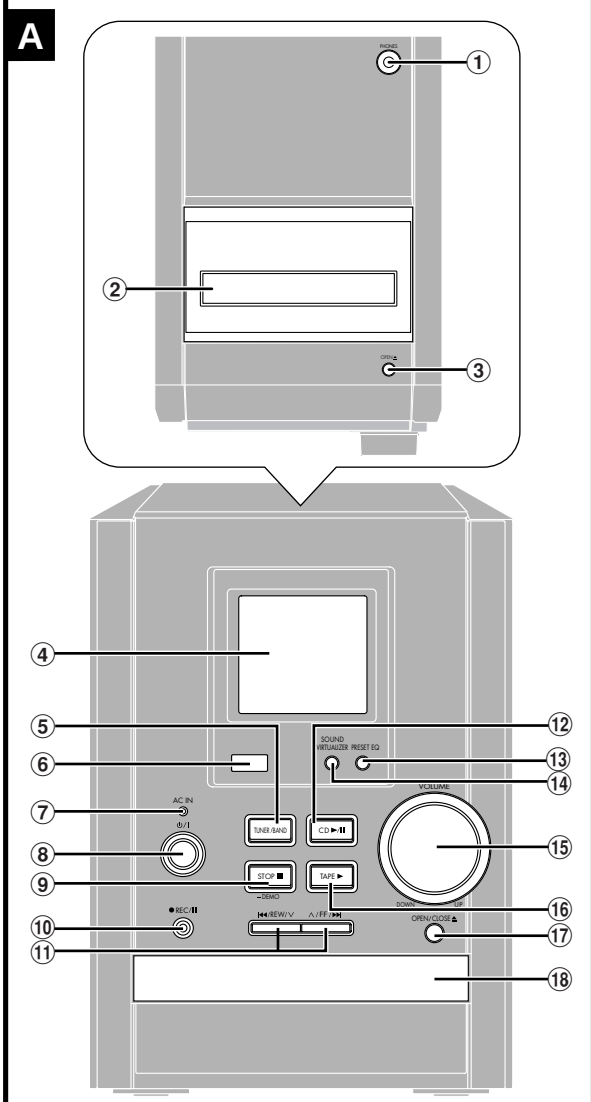
B

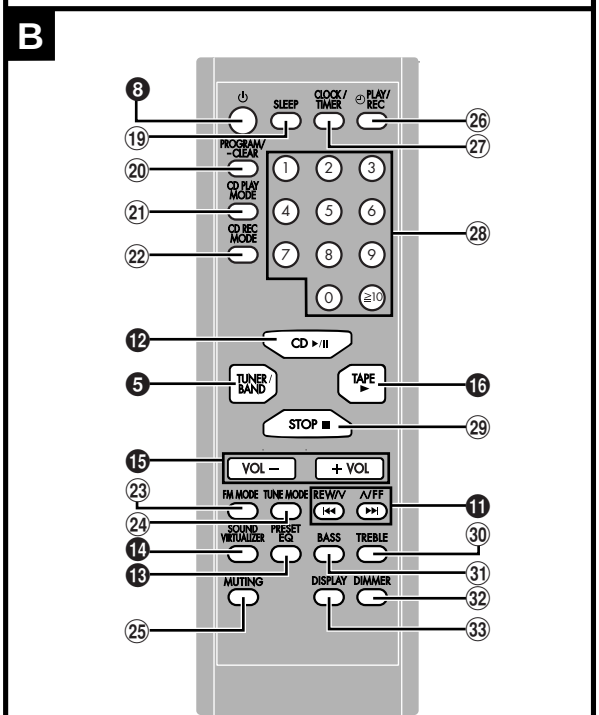
For Europe



For Others







Front panel controls

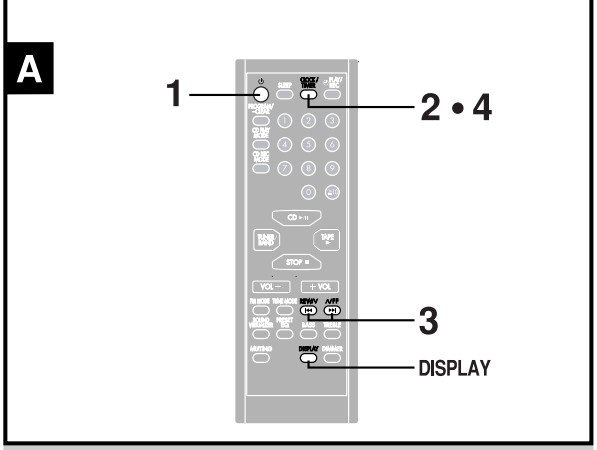
A Main unit

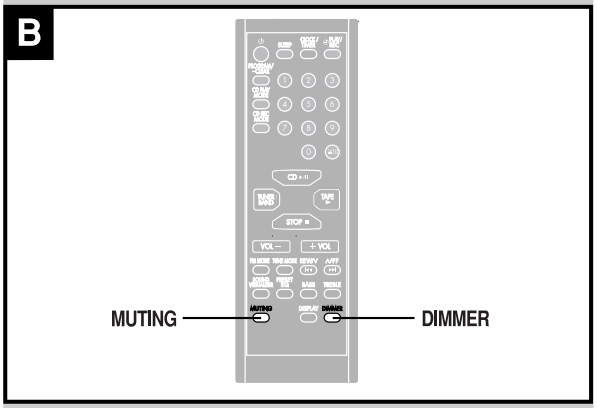
- ① **Headphone jack (PHONES) 19**
- ② **Cassette lid**
- ③ **Cassette open button (OPEN ⏏) 15**
- ④ **Display**
- ⑤ **Tuner/band select button (TUNER/BAND) 10**
- ⑥ **Remote control signal sensor**
- ⑦ **AC supply indicator (AC IN)**
  This indicator lights when the unit is connected to the AC mains supply.
- ⑧ **Standby/on switch (⏻/I)**
  Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ⑨ **Stop, demonstration, TAPE/CD mode select button (STOP ■, –DEMO) 9, 12, 15, 16**
- ⑩ **Recording start/pause button (●REC/II) 16, 17**
- ⑪ **CD skip/search, tape fast-forward/rewind, tune/ preset channel select, time adjust buttons (I◄◄/REW/∨, ∧/FF/►►I) .. 9, 10, 11, 12, 14, 15, 18, 20**
- ⑫ **CD play/pause button (CD ►/II) 12**
- ⑬ **Preset EQ select button (PRESET EQ) 19**
- ⑭ **Sound virtualizer button (SOUND VIRTUALIZER) 19**
- ⑮ **Volume control (VOLUME DOWN, UP) 10, 12, 15**
- ⑯ **Cassette play button (TAPE ►) 15**
- ⑰ **CD tray open/close button (OPEN/CLOSE ⏏) 12**
- ⑱ **CD tray**

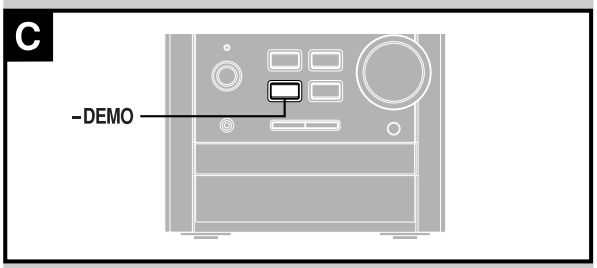
B Remote Control

Buttons such as ⑧ function in exactly same way as the buttons on the main unit.

- ⑲ **Sleep timer button (SLEEP) 21**
- ⑳ **CD program/clear, tuner preset button (PROGRAM/–CLEAR) 11, 14**
- ㉑ **CD play mode select button (CD PLAY MODE) 13**
- ㉒ **CD recording mode button (CD REC MODE) 18**
- ㉓ **FM mode, BP button (FM MODE) 10, 16**
- ㉔ **Tuning mode select button (TUNE MODE) 10, 11**
- ㉕ **Muting button (MUTING) 9**
- ㉖ **Play timer/recording timer button (⏲PLAY/REC) 20**
- ㉗ **Clock/timer button (CLOCK/TIMER) 9, 20, 21**
- ㉘ **Numeric buttons 11, 13**
- ㉙ **Stop, TAPE/CD mode select button (STOP ■) 13**
- ㉚ **Treble button (TREBLE) 19**
- ㉛ **Bass button (BASS) 19**
- ㉜ **Dimmer button (DIMMER) 9**
- ㉝ **Display button (DISPLAY) 9, 10**







A Setting the time

by remote control only

This is a 24-hour clock.

The example shows how to set the clock for 18:30 (6:30 pm).

1 Press [⏻] to turn the unit on.

2 Press [CLOCK / TIMER] to display "CLOCK".

Every time you press the button:

→ **CLOCK** → ◴ PLAY → ◴ REC → Original display ←

3 Within 10 seconds

Press [I◀◀, REW/∨] or [▶▶I, ∧/FF] to set the time.

Press and hold to change the time faster.

4 Press [CLOCK / TIMER].

The time is set and the original display is restored.

To switch to clock display (For Europe: only in CD/tape mode)

Press [DISPLAY].

Each time you press the button:

Clock display ↔ Current display

To show the time (when the unit is ON)

Press [CLOCK/ TIMER].

The clock is shown for about 10 seconds.

Note

The clock may lose or gain some time over a period. Readjust if necessary.

B Convenient Functions

by remote control only

To dim the display panel

Use this when you are going to sleep or any other time you would prefer the panel to be dimmer.

Press [DIMMER].

The display panel dims except for the [AC IN] indicator.

To cancel

Press [DIMMER] again.

To mute the volume

This feature is convenient when you have a telephone call, etc.

Press [MUTING].

"MUTING" appears.

To cancel

Press [MUTING] again. ("MUTING" goes out.)

Muting can also be cancelled by lowering the volume all the way to (-- dB).

When the system is turned off, the muting operation will be automatically cancelled.

C Turning the demo function off

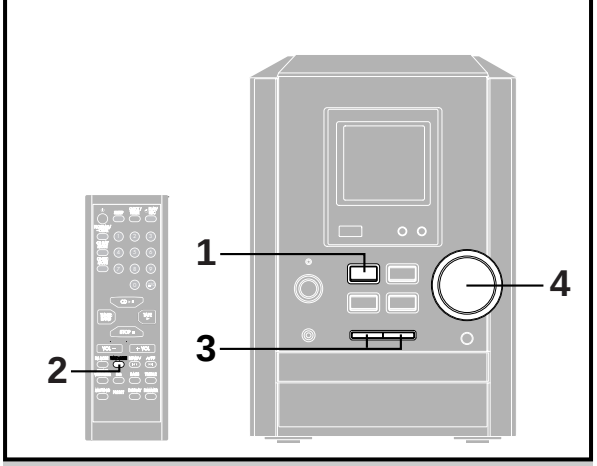
If the clock has not been set, a demonstration of the display is shown when the unit is switched to standby.

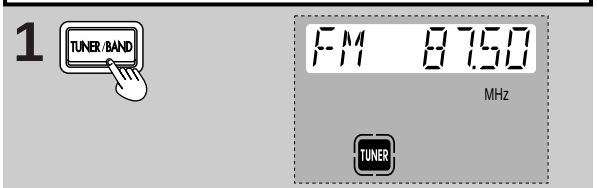
This function is set to on at the time of purchase.

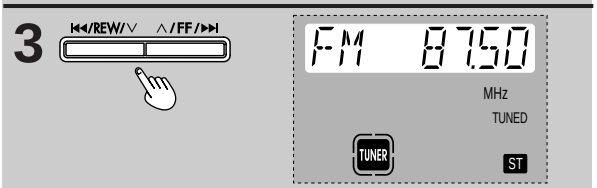
Press and hold [–DEMO] until "DEMO OFF" is displayed.

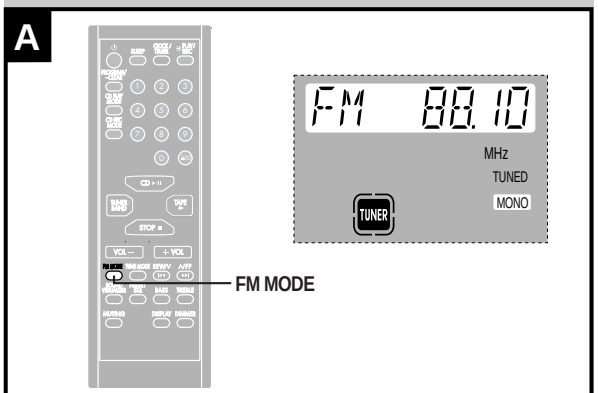
The display changes each time the button is held down.

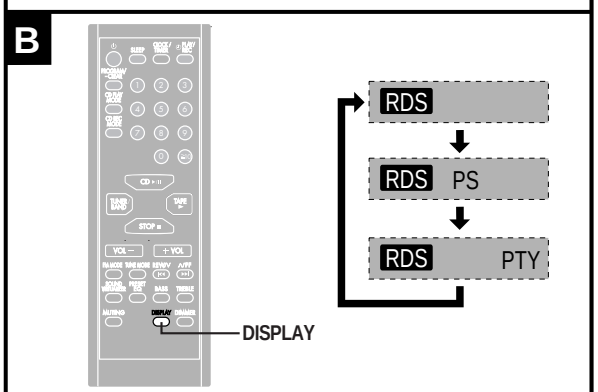
DEMO OFF (off) ↔ DEMO ON (on)











The radio: manual tuning

1 Press [TUNER/BAND] to select “FM” or “AM”.
The unit comes on automatically.
Every time you press the button:
FM ↔ AM

2 Press [TUNE MODE] on the remote control to select the manual tuning mode.
Make sure that “PROGRAM” is not displayed.

3 Press [⏮/REW/∨] or [∧/FF/⏭] to select the frequency of the required station.
“TUNED” is displayed when a radio station is tuned.
“ST” is displayed when a stereo FM broadcast is being received.

4 Adjust the volume.

Auto tuning
Press and hold [⏮/REW/∨] or [∧/FF/⏭] for a moment until the frequency starts changing rapidly. The unit begins auto tuning, stopping when it finds a station.
- Auto tuning may not function when there is excessive interference.
- To cancel auto tuning, press [⏮/REW/∨] or [∧/FF/⏭] once again.

A If noise is excessive in FM

by remote control only

Press [FM MODE] to display “MONO”.
This mode improves sound quality if reception is weak, but broadcasts will be heard in monaural.
Press [FM MODE] again to cancel the mode.
“MONO” goes out. MONO is also cancelled if the frequency is changed.
Turn off “MONO” for normal listening. Stereo and monaural broadcasts are automatically played as they are received.

B RDS broadcasting (For Europe)

by remote control only

This unit can display the text data transmitted by the radio data system (RDS) available in some areas.
If the station you are listening to is transmitting RDS signals, “ RDS ” will light up on the display.

Displaying the name of a broadcasting station or a program type
Press [DISPLAY].
Every time you press the button:

Frequency display → Station Name (PS) → Program type (PTY)

Program type displays			
NEWS	VARIED	FINANCE	COUNTRY
AFFAIRS	POP M	CHILDREN	NATIONAL
INFO	ROCK M	SOCIAL A	OLDIES
SPORT	M.O.R M*	RELIGION	FOLK M
EDUCATE	LIGHT M	PHONE IN	DOCUMENT
DRAMA	CLASSICS	TRAVEL	TEST
CULTURE	OTHER M	LEISURE	ALARM
SCIENCE	WEATHER	JAZZ	

Notes
- RDS displays may not be available if reception is poor.
  *“M.O.R M”=“Middle of the road music”
- Sound is momentarily interrupted if you load/unload tapes while listening to an AM broadcast.

The radio: preset tuning

by remote control only

There are two methods of presetting stations.

Automatic presetting: All the stations the tuner can receive are preset.

Manual presetting: You can select the stations to preset and the order they are preset in.

Up to 15 stations each can be set in the FM and AM bands.

Preparation:

Press [TUNER/BAND] to select “FM” or “AM”.

A Automatic presetting

Do the following once each for FM and AM.

Preparation:

Tune to the frequency where presetting is to begin (➡ page 10).

Press and hold [PROGRAM/–CLEAR].

The tuner presets all the stations it can receive into the channels in ascending order. When finished, the last station memorized is tuned in.

Manual presetting

Preset the stations one at a time.

① **Press [PROGRAM/–CLEAR] then press [I◀◀, REW/∨] or [▶▶I, ∧/FF] to tune to the required station.**

② **Press [PROGRAM/–CLEAR] then press [I◀◀, REW/∨] or [▶▶I, ∧/FF] to select a channel.**

③ **Press [PROGRAM/–CLEAR].**

The station occupying a channel is erased if another station is preset in that channel.

B Selecting channels

1 Press the numbered buttons to select the channel.

For channels 1 to 9 press the corresponding number.

For channels 10 to 15 press [≧**10**], then the two digits.

OR

① **Press [TUNE MODE] to select “PROGRAM”.**

② **Press [I◀◀, REW/∨] or [▶▶I, ∧/FF] to select the channel.**

2 Adjust the volume.

Allocation setting

Each country allocates broadcast bands according to their particular needs.

This system can also receive AM broadcasts allocated in 10 kHz steps.

To change the step (9kHz ↔ 10kHz)

Preparation:

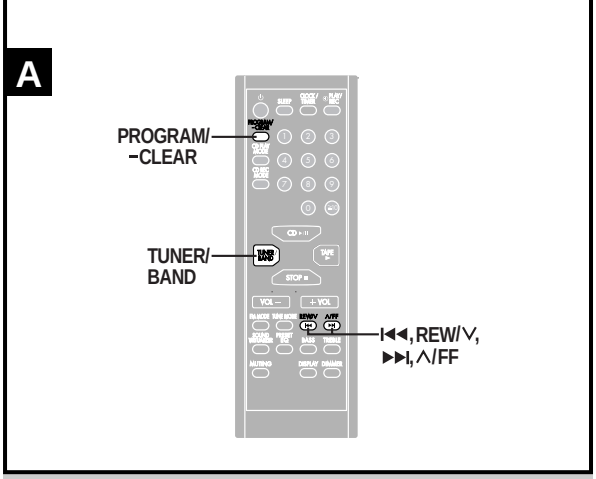
Press [TUNER/BAND] to select “FM”.

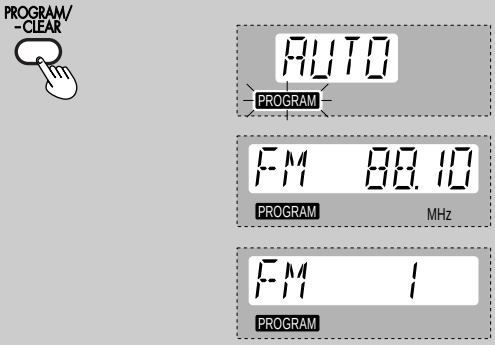
① Press and hold [TUNER/BAND].
After a few seconds the display changes to a flashing display of the current minimum frequency.

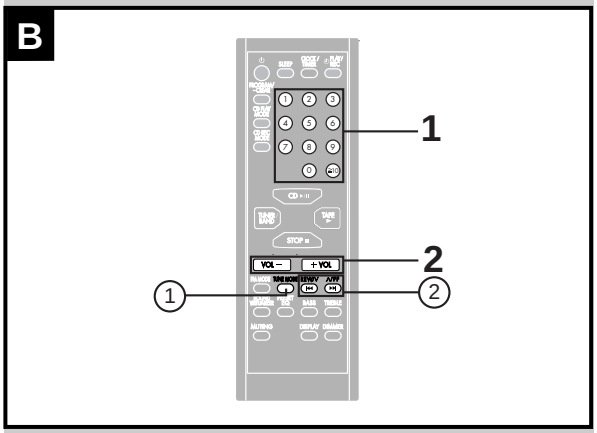
② Continue to hold [TUNER/BAND] down.
When the minimum frequency changes, release the button.
To return to the original step, repeat the above steps.

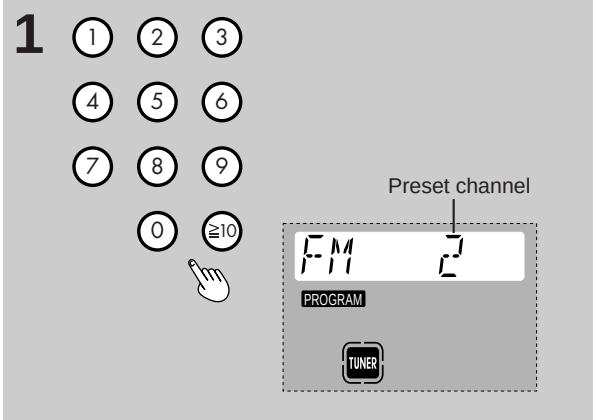
Note

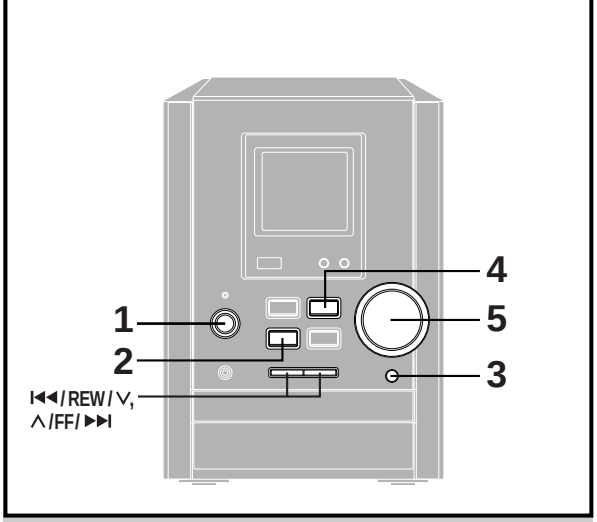
• After changing the “allocation” setting, the frequencies you previously preset in the memory will be cleared.

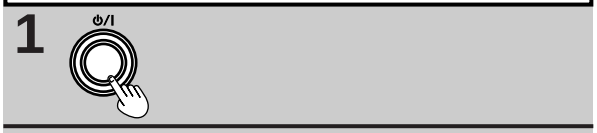


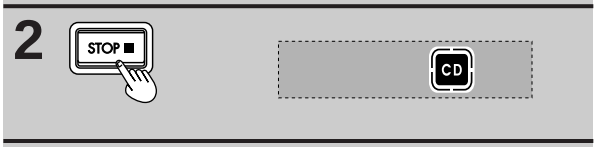


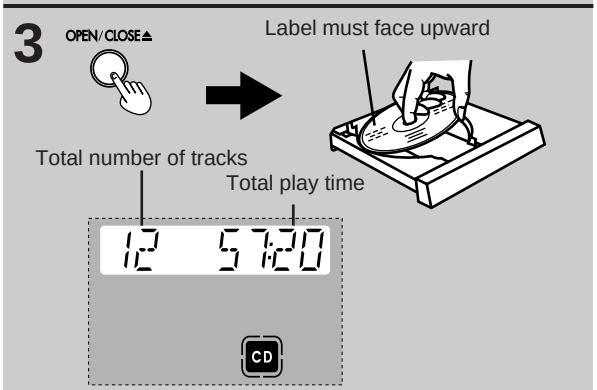


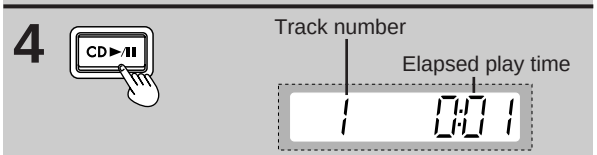


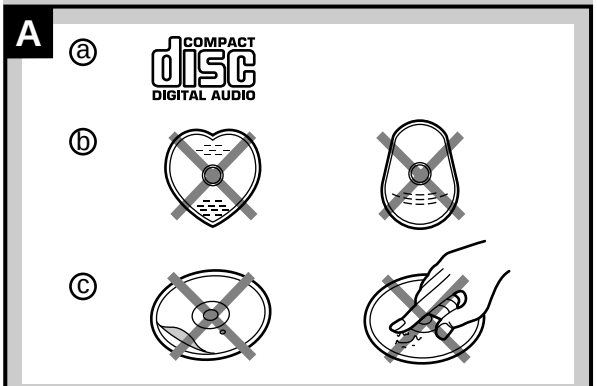












CDs

This unit can play CD-DA (digital audio) format audio CD-R and CD-RW that have been finalized (a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW) upon completion of recording.
It may not be able to play some CD-R or CD-RW due to the condition of the recording.

1 Press [⏻/I] to turn the unit on.

2 Press [STOP ■] to select the CD mode.
Every time you press the button:
TAPE ↔ CD

3 Press [OPEN/CLOSE ⏏] to open the tray, load a CD, and press [OPEN/CLOSE ⏏] to close the tray.

4 Press [CD ▶/II] to start play.
Plays to the end of the CD and stops.

5 Adjust the volume.

To stop the disc
Press [STOP ■].

To pause play
Press [CD ▶/II]. Press [CD ▶/II] again to resume play.

Skipping tracks
Press [I◀◀/REW/∨] (backward) or [∧/FF/▶▶I] (forward).

Searching through tracks
During play or pause
Press and hold [I◀◀/REW/∨] (backward) or [∧/FF/▶▶I] (forward).

One touch play
When a CD is loaded and the unit is off, press [CD ▶/II]. The unit comes on and starts play.

To remove a CD
Press [OPEN/CLOSE ⏏].

Note
- During random play (➡ page 13), you cannot skip to tracks which have already been played.
- During program play (➡ page 14), or random play, you cannot search forward or backward over tracks.
- During program play, skipping is always in the programmed order, whether forward or backward.
- Program play cannot be used in combination with random play.

A CD selection and care

With this system, you can only play CDs having this mark. (ⓐ)
Do not;
- use irregularly shaped CDs. (ⓑ)
- attach extra labels and stickers.
- use discs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers. (ⓒ)
- attach scratch-proof covers or any other kind of accessory.
- write anything on the CD.
- clean CDs with liquids. (Wipe with a soft, dry cloth.)
- use CDs printed with label printer available on the market.

by remote control only

A Direct access play

Direct access allows you to start normal play from a specific track to the last track on the CD.

1 Press [STOP ■] to select the CD mode.
Every time you press the button:
TAPE ↔ CD

2 Press the numeric button(s) to select the desired track number.
Play will start with the track you select.

To select a two-digit track
Press [≧**10**] and then the two numbers you want.
For example
Track no. 20: [≧**10**]→[2]→[0]
Track no. 35: [≧**10**]→[3]→[5]

B Repeat play and random play

Press [CD PLAY MODE] before or during play to select the desired play mode.
Every time you press the button:
→1-↻ → ↻ → RANDOM →Previous display

Press [CD ▶/II] to start play if in the stop mode.

To repeat just one track:
Press [CD PLAY MODE] to select "1-↻".

To repeat all tracks:
Press [CD PLAY MODE] to select "↻".

To start random play:
Press [CD PLAY MODE] to select "RANDOM".
All tracks on the loaded CD will be played in random order.
Playback will stop automatically when all tracks have been played.

Note
- Random play does not work when "PROGRAM" is displayed (press and hold [PROGRAM/–CLEAR] first).
- Tracks cannot be selected with the numbered buttons.
- You cannot skip to tracks already played.
- Search can be done within the track in play only.

To cancel repeat play and random play
Press [CD PLAY MODE] to clear "1-↻", "↻" and "RANDOM".
If cancelled during play, play continues to the end of the disc.
Pressing [OPEN/CLOSE ⏏] also cancels repeat play and random play.

To repeat programmed tracks
① Program desired tracks (steps 1 to 4 on page 14).
② Press [CD PLAY MODE] to display "↻".
③ Press [CD ▶/II] to begin play.

Program play

by remote control only

This function allows you to program up to 36 tracks.

1 **Press [STOP ■] to select the CD mode.**

2 (In the stop mode)
Press [PROGRAM/–CLEAR].

3 **Press the numeric button(s) to select the track you want to play in the desired sequence.**

4 **Repeat step 3 until you have programmed all the tracks you want.**

5 **Press [CD ►/II].**
Play will start in the programmed sequence.
Play will stop automatically when all the programmed tracks have been played.
The program remains intact even if play is stopped or the unit is turned off. “P” appears when play is stopped to indicate the contents are in the memory.

To cancel program play mode

Press and hold [PROGRAM/–CLEAR] in the stop mode until “CLEAR” is displayed.
The mode is also cancelled if the CD tray is opened.
This will also erase the entire program.

To select a two-digit track

Press [**≧10**] and then the two numbers you want.

A When “-- --:-- --” is displayed

Total play time of the programmed tracks equals, or exceeds 100 minutes.
Tracks can still be programmed and played.

B When “FULL” appears

The number of programmed tracks is limited to 36. No further tracks can be programmed.

C Check program contents

Check to see if “P” is displayed, then press either [I◄◄, REW/∨] or [►►I, ∧/FF].
Every time you press one of the buttons, the track and program number are shown on the display.

Add to the program

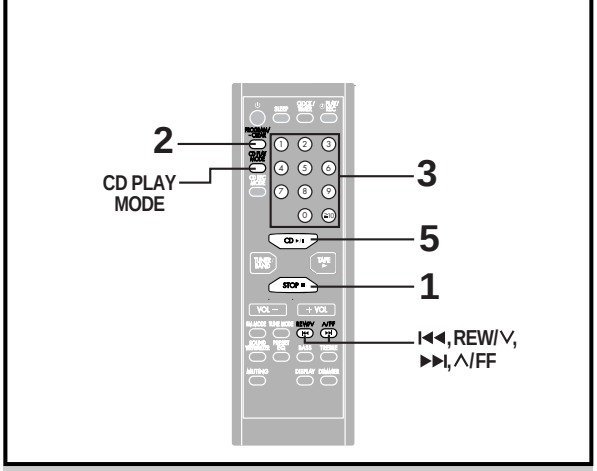
In the stop mode, repeat step 3.

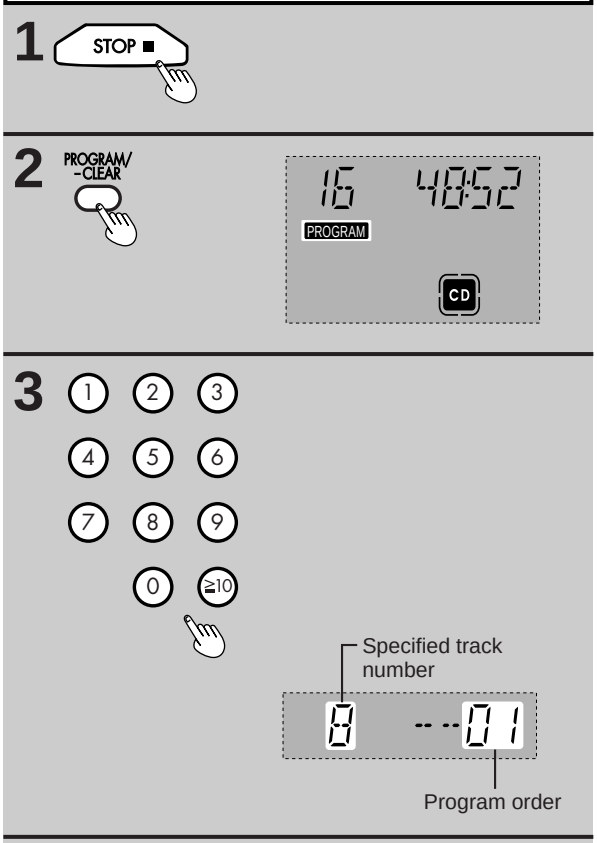
Note

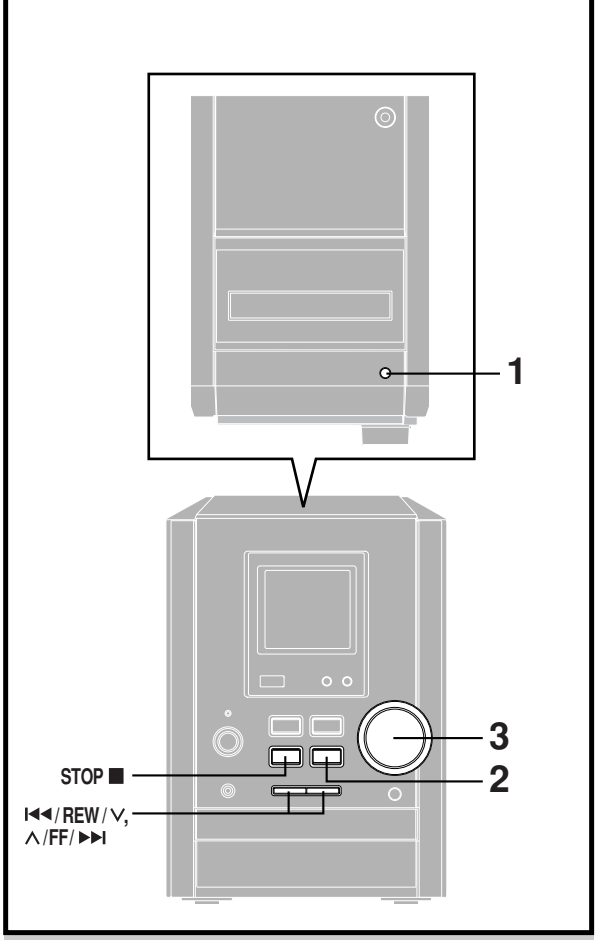
Program play does not work when “RANDOM” is displayed (press [CD PLAY MODE] to clear it) (➡ page 13).
Search can be done within tracks only.

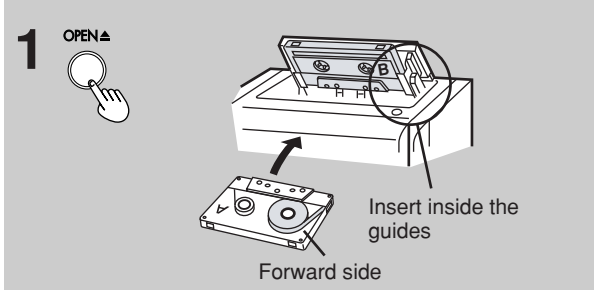
Memory retention

Your program is retained in memory for about 2 weeks while the system is unplugged.









Cassette tapes

1 Press [OPEN ≙] insert a cassette with the tape facing in.

When the button is pressed, the unit comes on automatically. Make sure the cassette is fully inserted and close the lid by hand.

2 Press [TAPE ►] to start playback.

One side is played, then playback stops automatically. To play on the other side of the cassette, turn the cassette over and press [TAPE ►].

3 Adjust the volume.

To stop tape playback
Press [STOP ■].

One-touch play
When the system is OFF and a cassette is already inserted, play starts automatically when you press [TAPE ►].

Fast-forward and rewind
Press [I◄◄/REW/∨] (rewind) or [∧/FF/►►I] (fast-forward) in the stop mode.

Cassette tape selection and care

Types of cassettes which can be played correctly

Use normal position tapes.
High position and metal position tapes can be played, but the unit will not be able to do full justice to the characteristics of these cassettes.

- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Tape slack can get caught up in the mechanism and should be wound up before the tape is played.
- Endless tapes can get caught up in the deck's moving parts if used incorrectly.

To find the beginning of a program (TPS: Tape Program Sensor)

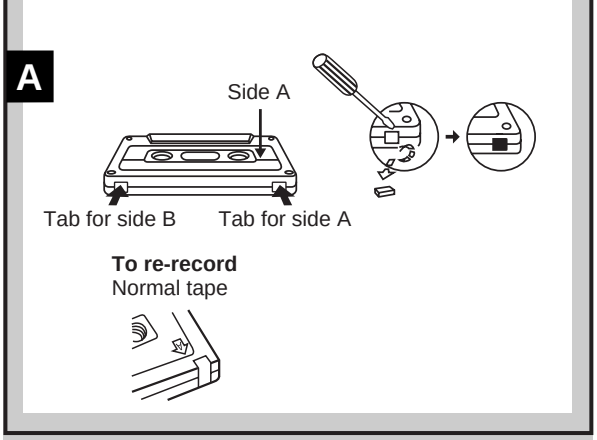
TPS finds the beginning of a track and resumes play from there. Each press increases the number of tracks skipped, up to a maximum of 9.

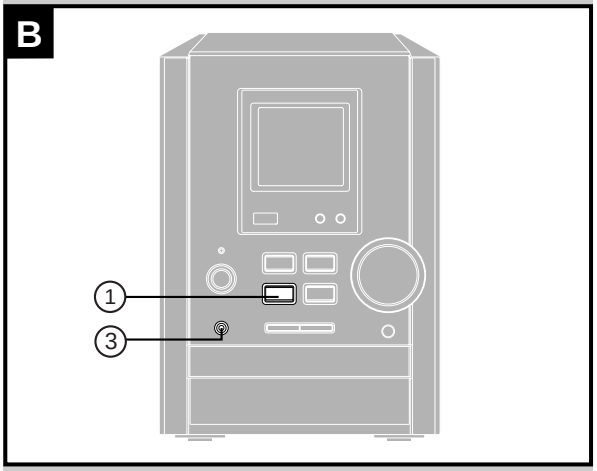
Press [I◄◄/REW/∨] or [∧/FF/►►I] during play.

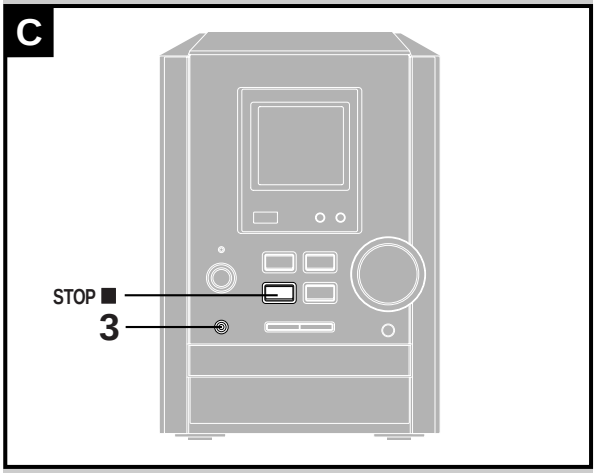
Notes

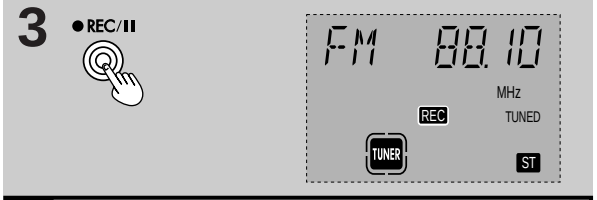
The TPS function searches for silent parts of about 4 seconds in length which are normally found between tunes. As a result, it may not function properly in the following cases:

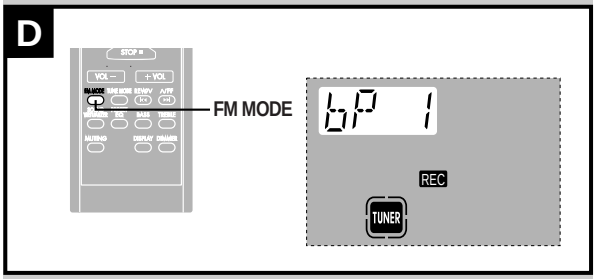
- With short silent parts
- When noise occurs between tunes
- With silent parts found within tunes











Before recording

Types of tapes which can be recorded correctly

Use normal position tapes.
High position and metal position tapes can be used, but the unit will not be able to record or erase them correctly.

A Erasure prevention

The illustration shows how to remove the tabs to prevent recording. To record on the tape again, cover as shown.

The effect of volume and sound quality on recording

These have no effect on recording.
They can be changed for playback.

B To erase a recorded sound

① Press [STOP ■] to select TAPE mode.
② Insert the cassette to be recorded on (➡ page 15).
③ Press [●REC/ II].

Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

C Recording the radio

Preparation:
- Wind up the leader tape.
- To record from halfway through the tape
  Wind the tape up to where you want to start recording.

1 Insert the cassette to be recorded on.
(➡ page 15)

2 Tune to the required station.
(➡ page 10 or 11)

3 Press [●REC/ II] to start recording.

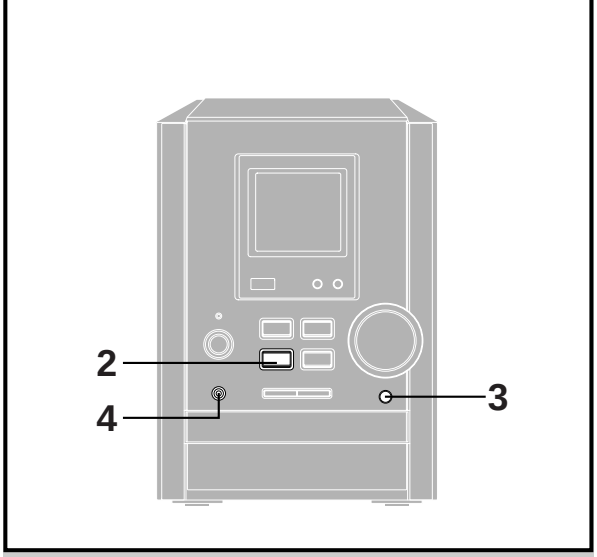
To stop recording
Press [STOP ■].

To stop recording temporarily
Press [●REC/ II].
To resume recording, press [●REC/ II].

D To reduce noise while recording an AM broadcast (Beat proof function)

by remote control only

Press [FM MODE] while recording.
Every time you press the button:
bP 1 ↔ bP 2
Select the position where there is less noise.



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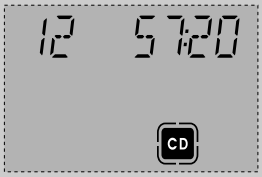

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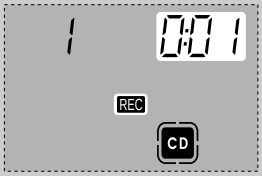


Recording CDs

Normal recording

- Tracks are recorded in the order in which they are found on the CD.
- Tracks are cut in the middle when the end of the tape is reached.
- You can record from any point on the tape.

1 Insert the cassette to be recorded on.
(➡ page 15)

2 Press [STOP ■] to select the CD mode.

3 Press [OPEN/CLOSE ⏏] to open the CD tray.
Insert the CD with label facing upward.
Press [OPEN/CLOSE ⏏] to close the CD tray.

4 Press [●REC/II] to start recording.
The recording will start from the first track.

To stop recording
Press [STOP ■].
The recording and the CD will stop.

To stop recording temporarily
Press [●REC/II].
To resume recording, press [●REC/II].

To record from a specific point on a tape
Before recording, advance the tape to the point from where you want to start recording.

To record programmed tracks

① After step 3, program the track(s) you want (➡ steps 2-4 on page 14).
② Press [●REC/II] to start recording.

Recording CDs

A ALL-REC

You can record a whole CD with the ALL-REC function.
It is not necessary to rewind the cassette. Recording always begins from the beginning of the side facing up.
Preparation: Insert a CD (➡ page 12).

1 Press [STOP ■] to select the CD mode.

2 Press [CD REC MODE] on the remote control so "ALL-REC" is displayed.
Every time you press the button:

→ **ALL-REC** → 1-REC → OFF →

The display shows the length of tape needed.
"C-- -- -- --" indicates the tape needed exceeds 100 minutes. You can still record, but some tracks may not be recorded if the tape isn't long enough.

3 Insert the cassette to be recorded on.
(➡ page 15)

4 Press [●REC/II] to start recording.
The unit rewinds the tape, records 10 seconds of silence, and then starts recording.

To stop recording
Press [STOP ■]. The CD also stops.

If a track is interrupted at the end of the side facing up
Recording and CD pauses.
To record the track again on the opposite side
① Press [OPEN ⏏], flip the cassette, and insert it.
② Press [●REC/II].
The unit records 10 seconds of silence, and resumes recording from the beginning of the cut-off track.

To record selected tracks
① Program tracks (➡steps 1 to 4 on page 14).
② Do steps 2 to 4 above.

Note
You cannot use ALL-REC with repeat or random play (➡ page 13).

B 1-REC

You can record a selected track with the 1-REC function.
Preparation:
Insert a CD (➡ page 12) and a cassette (➡ page 15).
Wind the tape to where you want to start recording.

1 Press [STOP ■] to select the CD mode.

2 Press [CD REC MODE] on the remote control so "1-REC" is displayed.

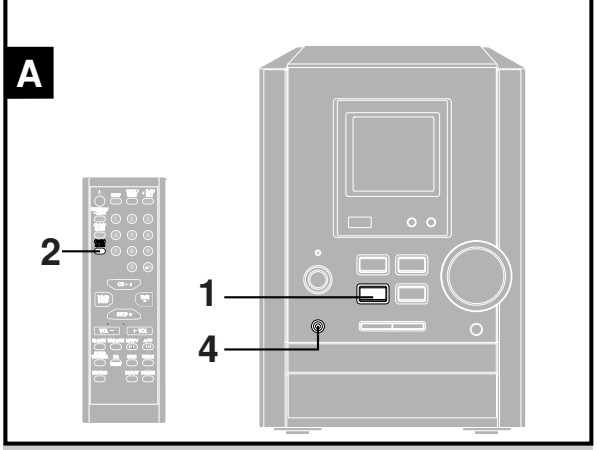
3 Press [I◀◀/REW/∨] or [∧/FF/▶▶I] to select the track you want to record.

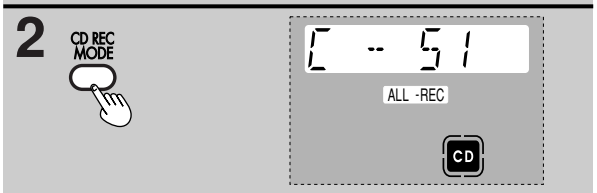
4 Press [●REC/II] to start recording.
CD plays and recording starts at the same time.

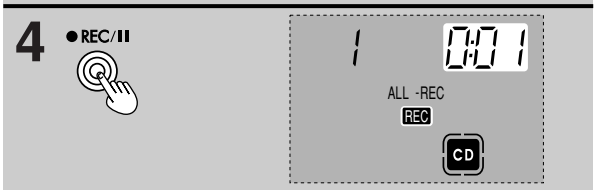
To stop recording
Press [STOP ■]. The CD also stops.

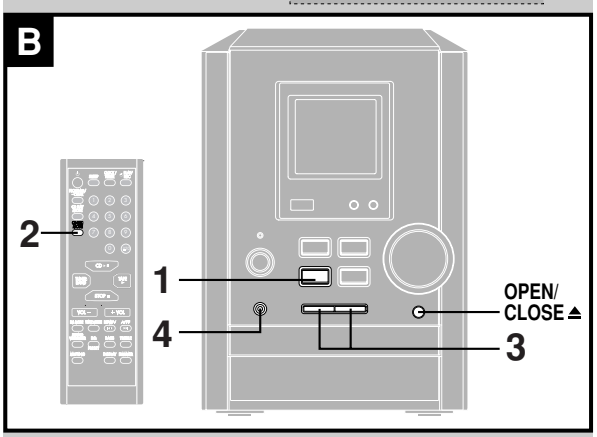
To continue recording from another CD
① Press [OPEN/CLOSE ⏏] and insert the other CD.
② Do steps 3 and 4.

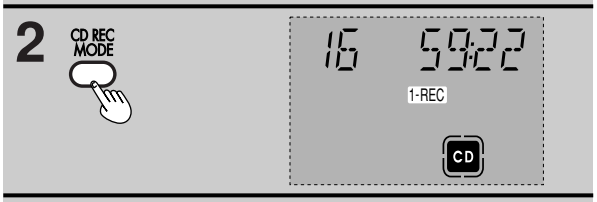
To record a track while it is being played
① Press [CD REC MODE] on the remote control so "1-REC" is displayed.
② Press [●REC/II].
Recording starts from the beginning of the track and stops when the track finishes.

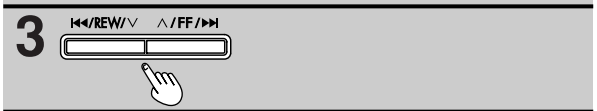


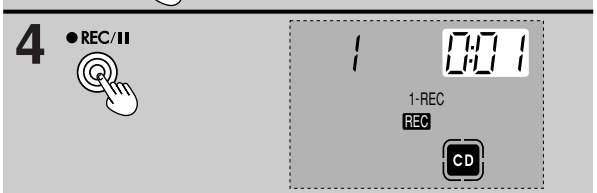


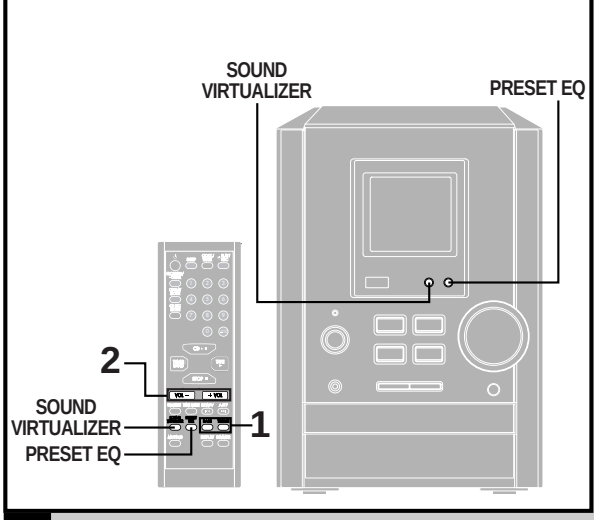


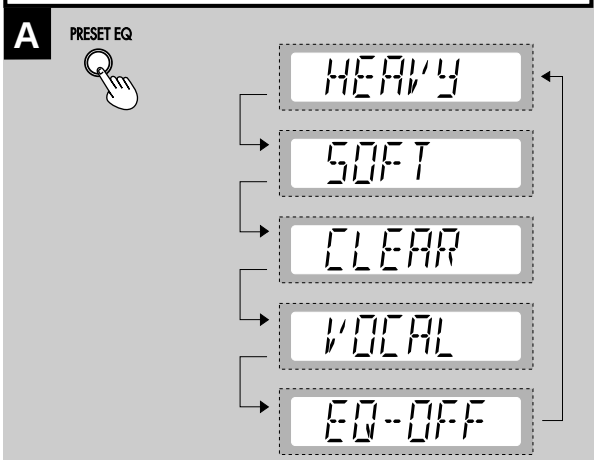


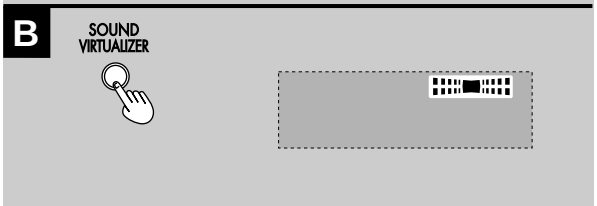


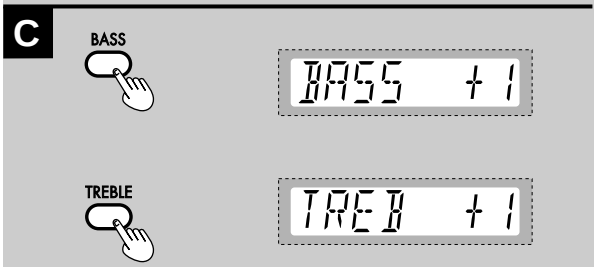


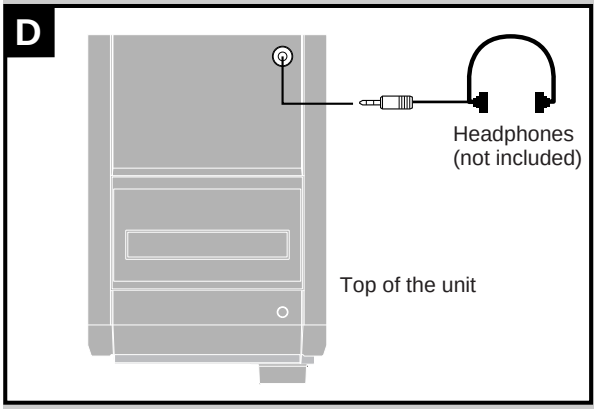












Sound Quality

A Using the built-in sound quality settings

You can choose one of four types of sound quality.
HEAVY: Adds punch to rock
SOFT: For background music
CLEAR: Clarifies higher sounds
VOCAL: Adds gloss to vocal

Press [PRESET EQ] to select a setting.

Each time you press the button:

→ HEAVY → SOFT → CLEAR → VOCAL → EQ-OFF (cancelled) →

Note

You cannot use [PRESET EQ] and [BASS]/[TREBLE] together.
Changes to sound quality do not affect recordings.

B Using the "live" effect (SOUND VIRTUALIZER)

The sound virtualizer leaves middle-range sounds such as vocals clear and gives natural width and depth to music.
Sound virtualizer is effective with stereo sound.

Press [SOUND VIRTUALIZER] to display "▮▮▮▮▮▮▮▮▮▮▮▮▮".

To cancel

Press [SOUND VIRTUALIZER] to clear the "▮▮▮▮▮▮▮▮▮▮▮▮▮" indicator.

- When listening through headphones, the effect is less discernible than through the unit's speakers.
- If interference in FM stereo reception increases, cancel the sound virtualizer effect.

C To adjust the tone quality

by remote control only

1 Press [BASS] (to select low-frequency sound) or [TREBLE] (to select high-frequency sound).

2 Press [VOL –] or [+ VOL] to adjust the level.

The tone level can be varied within a range of -5 to +5.

Note

Changes to tone quality do not affect recordings.

D Listening with headphones

Reduce the volume level, and connect the headphones.
Plug type: 3.5 mm stereo.

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

Using the timers

Using the play/record timer

by remote control only

The timer has two functions. It can be set to on at a certain time to wake you up, or it can be set to record the radio.
The play timer cannot be used in combination with the record timer.

Preparations

- Turn the unit on and set the clock (➡ page 9).
- **For the play timer**, prepare the music source you want to listen to; cassette, CD or radio, and set the volume.
- **For the record timer**, check the cassette's erasure prevention tabs (➡ page 16: A), insert the tape and tune to the radio station (➡ page 10).

1 Press [CLOCK/TIMER] to select the timer function.

Every time you press the button:

→CLOCK ⟶ ◴**PLAY** ⟶ ◴**REC** → Original display ←

◴**PLAY** : to set the play timer
◴**REC** : to set the record timer

Setting the start and finish times

(Within 10 seconds or so)

2 ① Press [I◀◀, REW/∨] or [▶▶I, ∧/FF] to select the starting time.
② Press [CLOCK/TIMER].

3 ① Press [I◀◀, REW/∨] or [▶▶I, ∧/FF] to select the finishing time.
② Press [CLOCK/TIMER].

The start and finish times are now set.

Turning the timer on

4 Press [◴PLAY/REC].

Every time you press the button:

→ ◴**PLAY** → ◴**REC** → no displays (off) →

◴**PLAY** : to turn the play timer on
◴**REC** : to turn the record timer on
(The indicator doesn't appear if the start and finish times haven't been set.)

"ERROR" appears if the clock hasn't been set.

5 Press [⏻] to turn the unit off.

The unit must be off for the timers to operate.

- **For play timer**
  The timer play will start at the preset time and volume level you preset.
- **For record timer**
  The record timer comes on about 30 seconds earlier than the set time.

To cancel the timer

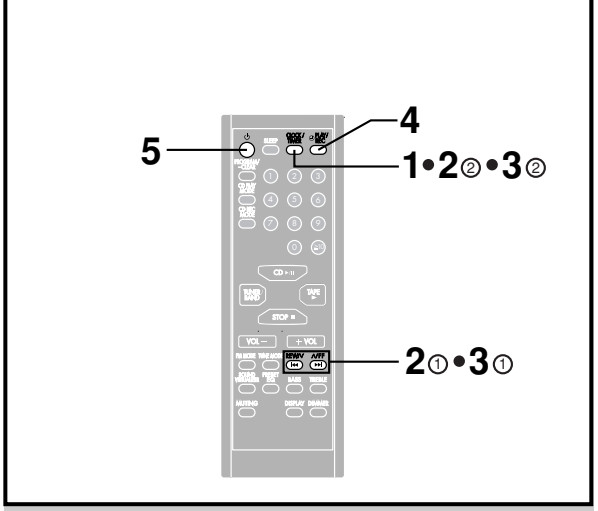
Press [◴PLAY/REC] to clear the timer indicators from the display.

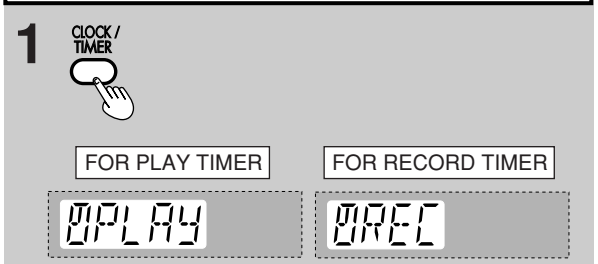
The timer comes on at the set time everyday if the timer is on.

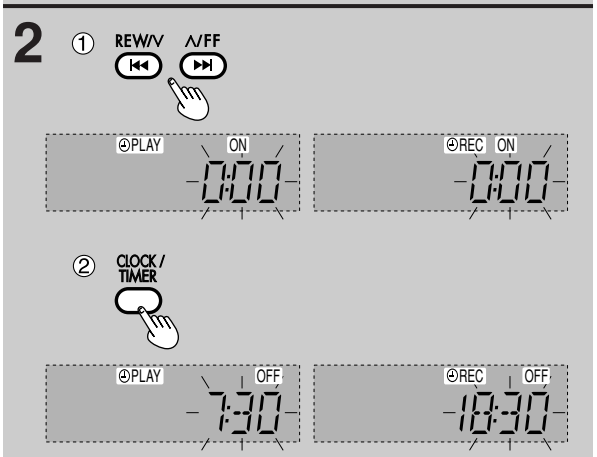
To change the settings (when unit is on)

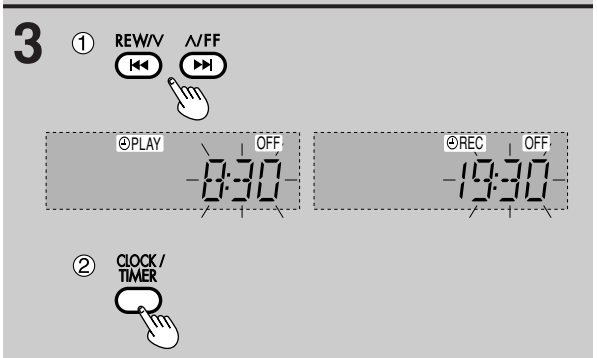
- **To change the play/record times**
  Do steps 1, 2, 3, and 5.
- **To change the source or volume**
  ① Press [◴PLAY/REC] to clear the timer indicator from the display.
  ② Make changes to the source or volume.
  ③ Do steps 4 to 5.

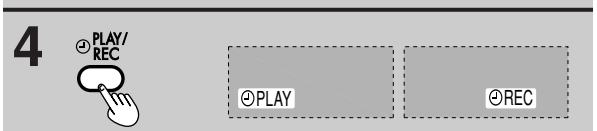
(Continued on next page)



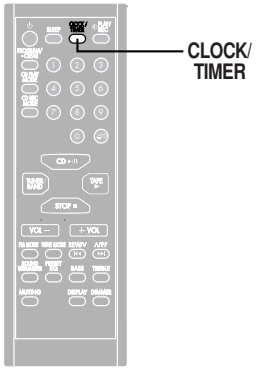








A



A Using the play/record timer

by remote control only

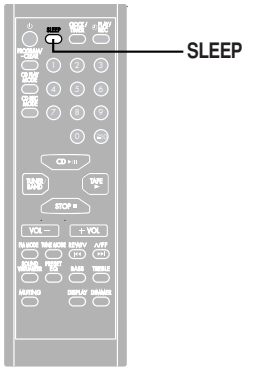
To check the settings
Press [CLOCK/ TIMER].
(When the unit is on, press [CLOCK/TIMER] to select "PLAY" or "REC".)
The timer conditions are shown in the following order:
Play timer: start time → finish time → source → volume
Record timer: start time → finish time → source

You can enjoy other sources after you have set the timer.
Turn the unit off before the timer's start time.

Note

- If you turn the unit off and on again while a timer is functioning, the finish time setting will not be activated.
- If the unit is on, the timer will not function. The unit must be in the standby mode.

B



B Using the sleep timer

by remote control only

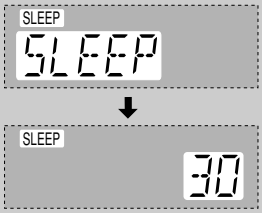
Set the unit to stop and turn off after the certain time.

While enjoying the desired source:

Press [SLEEP] to select the desired time.

Every time you press the button:

→ 30 → 60 → 90 → 120 → OFF →



To cancel the sleep timer
Press [SLEEP] to select "OFF".

To confirm the remaining time
(only while unit is ON)
Press [SLEEP].
The remaining time is shown for about 3 seconds.

To change the time remaining during operation
Press [SLEEP] to show the remaining time, and then press [SLEEP] to select the desired time.

Note

The play and sleep timer or the record and sleep timer can be used together.
The sleep timer always has priority. Be sure not to overlap timer settings.

Troubleshooting guide

Before requesting service, make the below checks. If you can't fix the system as described below, or if something not listed here occurs, refer to the enclosed directory to locate an Authorized Service Center convenient to you or contact your dealer.
Reference pages are shown as black circled numbers ❻.

Common Problems

No sound.	Turn the volume up. The speaker cords may be shorted. Turn the unit off, check and correct the connections and turn the unit on. ❻
Sounds unfixed, reversed or come from one speaker only.	Check the speaker connections. ❻
Humming heard during play.	An AC mains lead or fluorescent light is near the cables. Keep other appliances and leads away from this unit's cables. If possible in your area, turn the AC mains lead's plug or connector over to reverse the lead's polarity.
"ERROR" is displayed.	Incorrect operation performed. Read the instructions and try again.
"- -:- -" appears on the display.	You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time. ❾
"F76" is displayed.	Check and correct the speaker cord connections. ❻ If this does not fix the problem, there is a power supply problem. Consult the dealer.

Listening to the radio

Noise is heard. The stereo indicator flickers or doesn't light. Sound is distorted.	Use an outdoor antenna. ❼
A beat sound is heard.	Turn the TV off or separate it from the unit.
A low hum is heard during AM broadcast.	Separate the antenna from other cables and cords.
An AM broadcast station cannot be picked up clearly.	Frequency step is set to 10 kHz. Change the frequency step to 9 kHz. ⓫

When there is a television set nearby

The picture on the TV disappears or stripes appear on the screen.	The location and orientation of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna. ❼ The TV antenna wire is too close to the unit. Separate the antenna wire of the TV set from the unit.

Using the cassette deck

Poor quality sound.	Clean the heads. ㉓
Recording is not possible.	If the erasure prevention tabs have been removed, cover the holes with adhesive tape. ⓰

Playing discs

The display is wrong or play won't start.	The disc may be upside down. ⓬ Wipe the disc. Replace the disc if it is scratched, warped, or nonstandard. Condensation may have formed inside the unit due to a sudden change in temperature. Wait about an hour for it to clear and try again.
Only one track from the CD is recorded.	Press [CD REC MODE] on the remote control to cancel one track edit recording and to select the required mode (ALL-REC or OFF). ⓲

The remote control

Remote control doesn't work.	Check the batteries are inserted correctly. ❺ Replace the batteries if they are worn.

Technical specifications

AMPLIFIER SECTION

RMS power output
THD 10%,
both channels driven 15 W per channel (6 Ω)
PMPO power output (For South East Asia only) 150 W
Output impedance
Headphone 16-32 Ω

FM TUNER SECTION

Frequency range 87.50–108.00 MHz (50 kHz step)
Sensitivity 2.0 µV (IHF)
S/N 26 dB 1.5 µV
Antenna terminal(s) 75Ω (unbalanced)

AM TUNER SECTION

Frequency range 522 – 1629 kHz (9 kHz steps)
520 – 1630 kHz (10 kHz steps)
Sensitivity
S/N 20 dB (at 999 kHz) 560 µV/m

CASSETTE DECK SECTION

Track system 4 track, 2 channel
Heads
Record/playback Solid permalloy head
Erasure AC erase head
Motor DC servo motor
Recording system AC bias 100 kHz
Erasing system AC erase 100 kHz
Tape speed 4.8 cm/s
Overall frequency response (+3, -6 dB) at DECK OUT
NORMAL (TYPE I) 35 Hz – 14 kHz
S/N 50 dB (A weighted)
Wow and flutter 0.15% (WRMS)
Fast forward and rewind times
Approx. 120 seconds with C-60 cassette tape

CD SECTION

Sampling frequency 44.1 kHz
Decoding 16 bit linear
Beam source Semiconductor laser
Wavelength 780 nm
Number of channels 2 channels Stereo
Wow and flutter Below measurable limit
Digital filter 8 fs
D/A converter MASH (1 bit DAC)
Pickup
Bølgelengde 780 nm
Laserstyrke Ingen farlig stråling sendes ut

SPEAKER SECTION

Type 2 way speaker system
Speaker(s)
Full range 10 cm cone type
Tweeter 6 cm cone type
Impedance 6 Ω
Input power 30 W (Music)
Output sound pressure level 82 dB/W (1.0 m)
Frequency range 55 Hz–22 kHz (–16 dB)
70 Hz–20 kHz (–10 dB)
Dimensions (WxHxD) 140 x 225 x 228 mm
Mass 1.95 kg

GENERAL

Power supply
For Continental Europe AC 220-230 V, 50 Hz
For United Kingdom, Australia and N.Z.
AC 230-240 V, 50 Hz
For South East Asia AC 220-240 V, 50/60 Hz

Power consumption 48 W
Dimensions (WxHxD) 165 x 228 x 313 mm
Mass 3.9 kg

Power consumption in standby mode 0.8 W

Note:
1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Maintenance

If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

For a cleaner crisper sound

Clean the heads regularly to assure good quality playback and recording.
Use a cleaning tape (not included).

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION!

- **DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.**
- **DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.**
- **DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.**
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.**

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS!

- **ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.**
- **ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.**
- **ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.**
- **HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.**

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NESTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL!

- **APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.**
- **APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.**
- **PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.**
- **BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.**

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

Matsushita Electric Industrial Co., Ltd.
Web Site: http://www.panasonic.co.jp/global/

En

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